

Biosolids Agronomic Rate Calculation Worksheet

General Information

Ohio EPA#	59-00141	
Field ID #	MOS-14-01	
Generator Name	Emerald BioEne	ev.

Biosolids Data and Beneficial Use Methods

Ammonia Nitrogen	43400.00 mg/kg
Total Kjeldahl Nitrogen	87600.00 mg/kg
Total Phosphorus	23900.00 mg/kg
Drganic Nitrogen	88:40/bs/ton
Available Nitrogen	113.32 lbs/ton
Phosphate (P ₂ O ₄)	54.731bs/ton
Will Immediate Incorporation / Injection be pe	rformed? Yes

Beneficial Use Site Information

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iail Phosphorus	49.50 ppm 43.56 ppm		Mehlich 3			
Please note that the agronomic rates and phosphorus index have been calculated within the Calculated Agronomic Rates section, however, based upon the above provided Soil Phosphorus result, you must utilize the most limiting factor or the Phosphorus Index:	.44.56 ppm The Nitrogen Agronomic Rate, the Multi-Year Phosphate Agronomic Rate, or th Phosphorus Index.					
County	Morrow					
Soil Type	Pewamo silty da	y loam				
Hydralogic Soil Group	C					
Year 1	Crop 1	Crop 2	Crop 3	Crop 4	Crop 5	
Crop Type(s)	Corn (Grain)			8.61.31.31		
xpected Crop Yield(s)(bu/acre or tons/acre)	180			(1) il-		
Year 2	Crop 1	Crop 2	Crop 3	Crop 4	Crop 5	
rop Type(s)	Soybean					
xpected Crop Yield(s)(bu/acre or tons/acre)	50					
Year 3	Crop 1	Crop 2	Crop 3	Crop 4	Crop 5	
Crop Type(s)						
xpected Crop Yield(s)(bu/acre or tons/acre)	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
Year 4	Crop 1	Crop 2	Crop 3	Crop 4	Crop S	
Crop Type(s)						
xpected Crop Yield(s)(bu/acre or tons/acre)	Pleasan Paren					
Year 5	Crop 1	Crop 2	Crop 3	Crop 4	Crop 5	
cop Type(s)						
xpected Crop Yield(s)(bu/acre or tons/acre)						
rop Nitrogen Requirements (Year 1)	215	215 bs/acre				
xisting Available Nitrogen		lbs/acre				
on-Biosolids Nitrogen Application	bs/acre					
hosphate (P ₂ O _s) Fertilizer Application	bs/acre					
Ion-Biosolids Organic Phosphate (P ₂ O ₅) Application		lbs/acre				
liosolids Phosphate (P₂O₅) Beneficial Use	103.84	lbs/acre				
otal Organic Phosphate (P ₂ O ₄) Fertilizer Application	103.84	lbs/acre				

us Index		Subva	
Soil Loss	5 tons/acre/year		
Connectivity to "waters of the State"	Concentrated flow does not leave the beneficial use site and is not adjacent to an intermittent or perenial stream.	0	
Runoff Class - Slope Range	1-3%	4	
Soil Phosphorus		3.05	
Application - Phosphate (P₂O₅) Fertilizer		0	
Method - Phosphate (P2Os) Fertilizer	None applied.	0	
Application - Organic Phosphate (P ₂ O ₅) Fertilizer		6.23	
Method - Organic Phosphate (P2Ot) Fertilizer	Immediate incorporation or applied on ≥80% cover.	0.5	
Does runoff flow through a filter strip designed per USDA Ohio- NRCS Field Office Technical Guide Standard 393?	No	0	
Total Phosphorus Index		18.7	

Calculated Agronomic Rates

Nitrogen Agronomic Rate	1,90	dry tons/acre	
i. Calculated Agronomic Rate	1.90	dry tons/acre	
Single Year Phosphate Agronomic Rate	1.32	dry tons/acre	
Multi-Year Phosphate Agronomic Rate	2.05	dry tons/acre	

Beneficial Use Site Records

Use Site Records				
Quantity of Biosolids Beneficially Used	221.95	dry tons		
Phosphate (P ₂ O ₅) Beneficially Used Per Acre	240,31	lbs/acre		
Acreage	101.1			
Date Biosolids Delivered to Beneficial Use Site	12/8/2018			
Dates of Beneficial Use	12/8/2018	to	12/11/2018	
Total Days Biosolids Stored at Beneficial Use Site	0.00	Days		
Date Signage Posted at Beneficial Use Site	12/1/2018		Yes	Is a permanent sign posted at
Date Signage Removed from Beneficial Use Site	12/18/2018		. No	the beneficial use site?

Ohio EPA (10/13)